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Application No.: 10/521,351   Docket No.: H6808.0071/P071

AMENDMENTS TO CLAIMS

1-4. (Canceled)

5. (Currently amended) A method for processing information on nucleotide sequence, comprising steps of:

(a) receiving positional information representing a position in a nucleotide sequence in accordance with a request for an object and/or service;

(b) obtaining, from among a plurality of pieces of ~~nucleotide sequence related information associated with positional information~~ polymorphism pattern, ~~nucleotide-sequence-related information~~ a polymorphism pattern associated with ~~positional information corresponding to~~ the positional information received in step (a), wherein the obtained polymorphism pattern is information on nucleotide sequence which differs among individual organisms and shows a pattern of nucleotide or nucleotide sequence in a polymorphism;

(c) transmitting the ~~nucleotide sequence related information~~ polymorphism pattern obtained in step (b); and

(d) receiving semantic information ~~implied by~~ corresponding to the ~~nucleotide sequence-related information~~ polymorphism pattern transmitted in step (c) and/or information associated with the semantic information in association with positional information, wherein the semantic information refers to information on phenotypes caused by one or more differences in polymorphism patterns, such as information on responsiveness to medicaments, side-effects caused by medicaments, risk of diseases and disorders, diatheses and properties, and interaction among proteins; and

wherein the method further comprises step (e) of ~~determining whether or not there is consistency between~~ making a determination based on the positional information received in step (d) and positional information related to the ~~nucleotide-sequence-related information~~ polymorphism pattern transmitted in step (c); and

wherein step (e) comprises alerting a party that received the ~~nucleotide sequence-related information~~ polymorphism pattern transmitted in step (c) ~~when there is no consistency between the positional information received in step (d) and the positional information associated~~

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~~with the nucleotide-sequence-related information transmitted in step (c),~~ and wherein the step of
alerting is performed in response to the determination made in step (e).

      6. (Currently amended) A method for processing information on nucleotide
sequence, comprising steps of:

      (a) receiving positional information representing a position in a nucleotide sequence
in accordance with a request for an object and/or service;

      (b) obtaining, from among a plurality of pieces of ~~nucleotide-sequence related
information associated with positional information~~ polymorphism pattern, ~~nucleotide sequence-
related information~~ a polymorphism pattern associated with ~~positional information
corresponding to~~ the positional information received in step (a), wherein the obtained
polymorphism pattern is information on nucleotide sequence which differs among individual
organisms and shows a pattern of nucleotide or nucleotide sequence in a polymorphism;

      (c) transmitting the ~~nucleotide-sequence-related information~~ polymorphism pattern
obtained in step (b); and

      (d) receiving semantic information ~~implied by~~ corresponding to the ~~nucleotide
sequence-related information~~ polymorphism pattern transmitted in step (c) and/or information
associated with the semantic information in association with positional information, wherein the
semantic information refers to information on phenotypes caused by one or more differences in
polymorphism patterns, such as information on responsiveness to medicaments, side-effects
caused by medicaments, risk of diseases and disorders, diatheses and properties, and interaction
among proteins; and

      wherein the method further comprises step (e) of ~~determining whether or not there is
consistency between~~ making a determination based on the positional information received in
step (d) and positional information related to the ~~nucleotide-sequence-related information~~
polymorphism pattern transmitted in step (c); and

      wherein step (e) comprises disclosing information concerning a party that received
the ~~nucleotide-sequence-related information~~ polymorphism pattern transmitted in step (c) to a
third party ~~when there is no consistency between the positional information received in step (d)
and the positional information associated with the nucleotide-sequence-related information
transmitted in step (c),~~ and wherein the third party is an organization for ensuring compliance

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with rules concerning transmission/reception of positional information or polymorphism pattern through a communication network, and wherein the step of disclosing is performed in response to the determination made in step (e).

7-12. (Canceled)

13. (New) A method for processing information on nucleotide sequence, comprising steps of: (a) receiving positional information representing a position in a nucleotide sequence in accordance with a request for an object and/or service; (b) obtaining, from among a plurality of pieces of polymorphism pattern, a polymorphism pattern associated with the positional information received in step (a), wherein the obtained polymorphism pattern is information on nucleotide sequence which differs among individual organisms and shows a pattern of nucleotide or nucleotide sequence in a polymorphism; (c) transmitting the polymorphism pattern obtained in step (b); and (d) receiving information corresponding to the polymorphism pattern transmitted in step (c) and/or information associated with the corresponding information in association with positional information; and

wherein the method further comprises step (e) of making a determination based on the positional information received in step (d) and positional information related to the polymorphism pattern transmitted in step (c); and

wherein step (e) comprises alerting a party that received the polymorphism pattern transmitted in step (c), and wherein the step of alerting is performed in response to the determination made in step (e).

14. (New) The method of claim 13, wherein the corresponding information includes information on responsiveness to medicaments, side-effects caused by medicaments, risk of diseases and disorders, diatheses and properties, or interaction among proteins.

15. (New) The method of claim 13, wherein step (e) includes determining that there is no match between the positional information received in step (d) and the positional information related to the polymorphism pattern transmitted in step (c).

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16. (New) A method for processing information on nucleotide sequence, comprising steps of: (a) receiving positional information representing a position in a nucleotide sequence in accordance with a request for an object and/or service; (b) obtaining, from among a plurality of pieces of polymorphism pattern, a polymorphism pattern associated with the positional information received in step (a), wherein the obtained polymorphism pattern is information on nucleotide sequence which differs among individual organisms and shows a pattern of nucleotide or nucleotide sequence in a polymorphism; (c) transmitting the polymorphism pattern obtained in step (b); and (d) receiving information corresponding to the polymorphism pattern transmitted in step (c) and/or information associated with the corresponding information in association with positional information; and

wherein the method further comprises step (e) of making a determination based on the positional information received in step (d) and positional information related to the polymorphism pattern transmitted in step (c); and

wherein step (e) comprises disclosing information concerning a party that received the polymorphism pattern transmitted in step (c) to a third party, and wherein the third party is an organization for ensuring compliance with rules concerning transmission/reception of positional information or polymorphism pattern through a communication network, and wherein the step of disclosing is performed in response to the determination made in step (e).

17. (New) The method of claim 16, wherein the corresponding information includes information on responsiveness to medicaments, side-effects caused by medicaments, risk of diseases and disorders, diatheses and properties, or interaction among proteins.

18. (New) The method of claim 16, wherein step (e) includes determining that there is no match between the positional information received in step (d) and the positional information related to the polymorphism pattern transmitted in step (c).

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